PCT/IB2004/052001

A. CLASSI	ification of subject matter G01T1/24					
According to	o International Patent Classification (IPC) or to both national classifi	cation and IPC				
B. FIELDS	SEARCHED					
Minimum do IPC 7	ocumentation searched (classification system followed by classification sy	tion symbols)				
	tion searched other than minimum documentation to the extent that					
	ata base consulted during the international search (name of data b ternal, WPI Data, PAJ	ase and, where practical, search terms used				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.			
х	OSINNSKI M ET AL: "Effects of prince irradiation on AlGan/InGan/Gan centring diodes" ELECTRONICS LETTERS, IEE STEVENA	green light	1,8,9, 13,21			
	vol. 33, no. 14, 3 July 1997 (19 pages 1252-1254, XP006007673 ISSN: 0013-5194 The entire document	997-07-03),	•			
Α	US 4 013 485 A (MA ET AL) 22 March 1977 (1977-03-22) abstract		1,13			
	column 1, line 40 - line 53 column 2, line 39 - line 59 figures		;			
		-/				
		,				
X Further documents are listed in the continuation of box C. X Patent family members are listed in annex.						
* Special categories of cited documents : Taleter document published after the international filling date						
"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or after the international or particular relevance; the claimed invention or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.						
which is	nte nt which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified)	cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the classical control of the classical c	be considered to nument is taken alone aimed invention			
	nt referring to an oral disclosure, use, exhibition or	cannot be considered to involve an inv document is combined with one or mor ments, such combination being obviou	e other such docu-			
"P" documer	nt published prior to the international filing date but an the priority date claimed	in the art. " "8" document member of the same patent for				
Date of the a	ctual completion of the international search	Date of mailing of the International search				
17	February 2005		0 6 06 2005			
Name and m	alling address of the ISA European Patent Office, P.B. 5818 Patentiaan 2	Authorized officer				
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Datta. S				

Interremental Application No PCT/IB2004/052001

ategory °	ontinuation) DOCUMENTS CONSIDERED TO BE RELEVANT ory ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No					
aregory	Chance of Coountain, with Intelligation, where appropriate, Of the Islavain passages					
	HAMILTON W J ET AL: "VERY HIGH RESOLUTION DETECTION OF GAMMA RADIATION AT ROOM-TEMPERATURE USING P-I-N DETECTORS OF CDZNTE AND HGCDTE" RECORD OF THE NUCLEAR SCIENCE SYMPOSIUM AND MEDICAL IMAGING CONFERENCE SAN FRANCISCO, OCT. 30 - NOV. 6, 1993, NEW YORK, IEEE, US, vol. VOL. 1, 30 October 1993 (1993-10-30), pages 232-235, XP000481346 the entire document	2,8,21				
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Interracia Application No PCT/IB2004/052001

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4013485	А	22-03-1977	DE FR JP	271598 236669 5213268	32 A1 95 A1 30 A	17-11-1977 28-04-1978 07-11-1977
			·			



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not Invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1, 2, 8, 9, 13, 21
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,8,9,13,21

A semiconductor element consisting of cadmium-zinc-telluride or cadmium-telluride crystals.

2. claims: 3,4

Reversing degradation of semiconductor elements by using reverse biasing.

3. claims: 5-7,20

A pre-use screening means for identifying degraded semiconductor elements.

4. claims: 10-12

A method for generating an alarm when the response of the detector signal degrads.

5. claims: 14-19

A pixel analyser to measure the radiation intensity distribution.